

## HOT ROLLED COILS / SLITS / PLATES

AM/NS India Steel has state-of-the-art hot rolling mills with a rated capacity of 8.6 MTPA. The facilities include a conventional hot rolling mill and a modern compact strip mill. The mills are capable of producing a wide range of high-strength hot rolled products in sizes ranging from 0.8 mm to 20 mm for various applications. The mills are equipped with an advanced automation system for producing products as per the required dimensions and sizes.



### BENEFITS

- Excellent cold forming and deep drawing properties
- Import substitute for high value, high quality steel
- Excellent weldability
- Consistency in quality
- Accreditation from BIS, RDSO etc.



### APPLICATIONS

- General engineering
- members, axles
- Shipbuilding
- Defence
- LPV
- Automotive wheel rims / disc, chassis, long member / cross
- Boilers and pressure vessels
- Railways
- Structural construction
- Compressor cell
- Boilers and pressure vessels
- Oil and gas pipelines
- API Line pipe



### FEATURES

- One of the widest hot strip mill in India, having width up to 2,000 mm
- Product conforming to national and international standards
- Dimensional tolerances customised to specific requirements
- Available in coil / slit / sheet form



### SUPPLY CONDITION

- TMill edge / trimmed / Slit coils
- HR black / Hot Rolled and Pickled Oiled (HRPO)



## GRADES

- Cold forming and deep drawing (EN 10111 DD11 to DD 14)
- Re-rolling grades (EN 10130 DC01, IS 1079 HR0, IS 11513 CR2, IS 11513 CR3)
- Medium carbon / high carbon steels (SAE\_1012 to SAE\_1080)
- High strength steels: (JIS G 3113 SAPH310/370/400/440, JIS G 3134 SPFH-540/590, EN 10149-2 S550MC/S650MC, S700MC, EN10346 HCT590X / (DP590 / DP600)
- Stretch flangable steel (EN 10338 HDT580F / (FB590 / FB590 HHE),
- Boron steel family for agricultural equipment (EN 10083 \_ 28MnB5, 30MnB5)
- Line pipe – API X42 to X-80 grades (Sour and Non Sour Applications)
- LPG Cylinder (IS 6240 GR 1)
- Structural steel (EN 10025 S235/S275/S355 \_ J2/JO/JR; IS 2062 E 250 A/BO/BR; IS 2062 E 350 A/BO/BR)
- Ship building grades (ASTM A131 \_ ABS A, B, D, E, AH 32, AH 36, DH 32, DH 36)
- Corrosion resistant steel (IRSM 41, EN\_10155\_S355J2G1W / S355\_JOWP)
- Boilers and pressure vessels grades (ASTM A516 Gr 55/60/70, ASTM A515 Gr 60/70, A285 Gr C)
- Electrical steel
- LPV grades (BS\_5045\_PART\_2\_TY\_A, B, C; EN\_10120\_P245NB / P265NB)



## DIMENSIONS

- Thickness: 0.8-20mm
- Width: 180-2,000mm

### DIMENSIONAL CAPABILITY

| Product Form  | Thickness      | Width          | Length                  |
|---------------|----------------|----------------|-------------------------|
| HR black      | 0.8 mm - 20 mm | 180-2,000 mm   | Coil / CTL max 12500 mm |
| HRPO          | 1.6 - 12.0 mm  | 1850 mm Max    | Coil / CTL max 12500 mm |
| Hot skin pass | 1.6 – 20 mm    | 800 – 2000 mm  | Coil / CTL max 12500 mm |
| Hot skin pass | 1.2 – 20 mm    | 50 - 2,000 mm  | Coil / CTL max 12500 mm |
| Cut to length | 0.8 – 20 mm    | 180 - 2,000 mm | 3000-12500 mm           |

## COLD ROLLED

AM/NS India Steel holds a leadership position in cold rolling with a capacity of 2 MTPA. The technology available in the complex ensures production of high quality products for critical applications in automotive, white goods, construction, etc. The wide range of products from drawable grades to high strength low alloy grades, meet the product requirements of different processes like drawability, stretch flangibility, weldability, etc. The processes are suitably backed by advanced modelling techniques for designing the products.



### BENEFITS

- Uniform mechanical properties
- Excellent formability and drawability
- Minimal deviations in mechanical properties of steels ensuring very short setting times on presses
- Excellent surface finish for superior paintability
- Table top flatness for white goods, furniture etc.



### APPLICATIONS

- Automotive
- Furniture
- Precision tubes
- Packaging industry
- Precision tubes
- Drums and Barrels
- White goods
- Electrical lamination



### FEATURES

- Very close dimensional tolerances – ensured by Automatic Gauge Control (AGC) system
- Automatic flatness control at cold rolling and skin pass mill
- Superior surface finish
- Conforming to various national / international standards and for customised needs
- Available in Coil / Slit / Sheet form



### SUPPLY CONDITION

- Coil / Sheet form



### DIMENSIONS

#### CR COIL:

Thickness: 0.4 to 3.2 mm (CRCA)  
0.15 to 1.9 mm (CRFH)  
Width: 200 to 1,625 mm

#### CRCA SHEET:

Thickness: 0.5 to 3.2 mm  
Width: 500 to 1550 mm  
Length: 500 to 3500 mm

## DIMENSIONAL CAPABILITY

| Product Form    | Thickness       | Width               | Length           |
|-----------------|-----------------|---------------------|------------------|
| CRCA coil form  | 0.4 mm - 3.2 mm | 900 mm - 1625 mm    | -                |
| CRCA SLT form   | 0.5 mm - 3.2 mm | 200 mm - 750 500 mm | -                |
| CRCA sheet form | 0.5 mm - 3.2 mm | - 1550 mm           | 500 mm – 3500 mm |



## GRADES

## COLD ROLLED PRODUCTS

| Hot rolled products  | Indian standards / Commonnam | International standards  |
|----------------------|------------------------------|--|
| Commercial quality   | IS 513 CR1                   | ASTM -366<br>JIS SPCC<br>EN 10130 DC 01  |
| Drawing              | IS 513 CR2                   | BS CR - 4<br>ASTM A-619<br>JIS SPCD<br>EN 10130 DC 02  |
| CRCA sheet form      | IS 513 CR3                   | BS CR - 3<br>ASTM A-620<br>JIS SPCD<br>EN 10130 DC 03  |
| Extra deep drawing   | IS 513 CR4                   | CR - 2/ CR - 1<br>ASTM A-620<br>JIS SPCEN<br>EN 10130 DC 04                                  |
| Super EDD or IF      | IS 513 CR5                   | EN 10130 DC 05   |
| Boron steel          | 20MnB5, 22MnB5, 26MnB5       | EN 10083-3   |
| IFHS                 |                              | EN 10268   |
| Bake hardening steel |                              | EN 10268   |
| HSLA                 |                              | EN 10268   |
| Electrical           |                              | 50 SP 890 D5<br>50 SP 660 D5<br>50 SP 660 D5<br>50 SP 560 D5<br>50 SP 450 D5<br>50 SP 450 D5 |
| MC / HC              |                              | SAE-1030<br>SAE-1040<br>SAE-1060<br>SAE-1065<br>SAE-1070<br>SAE-1075                         |

## GALVANISED

AM/NS India Steel produces world-class galvanised steel products in its galvanising facility with a capacity of 1 MTPA. The products offer excellent properties such as corrosion resistance, good service life, excellent surface finish, and close dimensional tolerances.



### BENEFITS

- Excellent surface finish for superior paintability
- Consistency in quality



### APPLICATIONS

- Construction: Steel framing, false ceilings, sandwich panels, ducting, decking, purlin, HVAC applications
- White goods: Refrigerators, deep freezers, washing machines, air coolers
- Automotive: Auto internal components, bus bodies
- Furniture: Office equipment
- Containers: Grain silos, drum & barrels
- Crash guards / hand rails



### FEATURES

- Uniform zinc coating in the range of 120 - 600 GSM
- Spangles: Zero / regular / minimised / suppressed
- With and without tension levelling
- Passivation: Chromated (Hexavalent / Trivalent)
- Oiling: 100 - 1,000 GSM
- Winding: Controlled / staggered (+/- 5 to +/-15mm)
- Coil id: 508 / 610 mm



### SUPPLY CONDITION

- Coil / Slits/ Sheet for



### DIMENSIONS

#### GAL COIL:

Thickness: 0.20 - 3.2 mm  
Width: 200 - 1,350 mm

#### GAL SHEET FORM

Thickness: 0.5-3.2 mm  
Width: 200 - 1,350 mm  
Length: 1000 mm to 3,500 mm

## PLATES

Our Hazira manufacturing complex houses India's widest modern steel plate mill, producing 5-meter-wide plates with a capacity of 1.5 MTPA. The mill produces value-added plates with tight dimension tolerance for specialized applications, all in accordance with international standards. The mill is equipped with the latest normalizing and quenching & tempering (Q&T) facilities for producing normalized plates up to 100 mm and quenched and tempered plates up to 70 mm thickness for specialty applications such as earth moving armor applications, shipbuilding, navy, etc.



### BENEFITS

- Import substitute for high value, high quality steel
- Strategically located plant to ensure timely delivery
- Better yield, quality and durability
- Optimized thickness to strength ratio
- Excellent weldability
- Excellent abrasion, corrosion and wear resistance
- Current certifications - ABS, DNV, NKK, GL, API, BV, DHR, BIS and other international certifications continually added



### APPLICATIONS

- Wind mills
- Heavy earthmoving machinery and mining equipment
- General fabrication and engineering
- Line pipes
- Shipyards
- Offshore platforms
- Refineries
- Boilers and pressure vessels
- Defense
- Railways
- Construction
- Hydropower engineering



### FEATURES

- Widest plate mill producing up to 5 m wide plates
- Customized products as per application requirements
- Value-added products through Thermo-Mechanical Control Process (TMCP) and Accelerated Direct Cooling Operation (ADCO)
- Shot blasted and primer coating facility



### DIMENSIONAL CAPABILITY

- Thickness: 6 - 150 mm
- Width: 1,100 - 5,000 mm
- Length: Up to 25,000 mm
- Weight: 14MT (max), 17MTplied on case to case basis



## PRODUCTS

- Steel plates for shipbuilding - ABS A, B, D, AH32, DH32, DH40, EH40
- Steel plates for mechanical structures - ASTM A36, SAE1010, SAE1060, SAE4150
- Steel plates for boiler and pressure vessels - ASTM A285 gr. A, B, C, A515 gr.55, 60, 65, A516 gr.55, 60, 65, 70
- Steel plates for line pipes - APIX 42 to APIX 80
- Yellow Goods - Rockstar 400, Rockstar 450, Rockstar 500
- Offshore structural application - API 2H, 2Y & 2W
- Weathering & Corrosion Resistant - ASTM A441 A588 Gr A, B, C, K
- General Engineering / Structural steel - EN 10025-2 S235 J2/ S235 J2+N, S355 J2/ S355 J2+N, ASTM A 283 Gr. C, A 573 Gr. 70, A572 Gr.50 Type 2, ASTM A 588 Gr. A/Gr. B



## SUPPLY CONDITION

- As Rolled
- Normalized Rolled
- Thermo-Mechanical Controlled Rolled
- Furnace Normalized
- Quenched / Quenched and tempered (Q&T)
- Shot blasted and primer coated
- Ultrasonically tested using online UT machine up to 50 mm and manual UT up to 150 mm

## COLOUR COATED

AM/NS India Steel colour coated sheets are manufactured in a state-of-the-art 0.4 MTPA facility. It produces high-quality colour coated sheets that add aesthetic beauty to the strength of steel. Pre-painted galvanized sheets (PPGI) have been extensively used across a wide range of prestigious projects across the world. Typical applications include construction, white goods and automotive industries.



### BENEFITS

- High corrosion resistance
- Resistance to peeling and flaking
- Easy to install, maintenance free
- Superior aesthetic
- Thermal efficiency
- Lightweight but structurally strong, ability to resist strong winds
- Stringent quality control tested to ensure performance in all-weather conditions



### APPLICATIONS

- Construction and infrastructure: Industrial roofing and cladding, cold storage and warehouses, airports, atriums in malls, showrooms, false ceilings, lighting fixture
- White goods: Refrigerators, display freezers, washing machine



### DIMENSIONS

- Thickness: 0.25-1.2mm
- Width: 300-1,320mm



### FEATURES

- Superior paint technology is available in a variety of paint systems like Abrasion Resistant System (ARS), Regular-Modified Polyester (RMP), Silicon-Modified Polyester (SMP), Poly Vinyl Di-fluoride (PVDF), Super Durable Polyester (SDP), Wood Finish, Wrinkle Finish.
- Superior coating technology resists cracking and peeling even during heavy forming operations
- NIR baking oven for superior paint surface quality



### SUPPLY CONDITIONS

- Coating Thickness: 15-40 microns
- Finishes: Smooth, matt, high gloss, textures, printed
- Coil id: 508 mm
- Available in corrugated sheets / plain sheets / coils / trapezoidal profiles (930 / 1,050 mm)



## PIPES

The AM/NS India Steel pipe mill is one of India's finest pipe mills with a capacity of 0.6 MTPA and the only one with an integrated raw material source. AM/NS India Steel's API-certified pipes find wide acceptance and approval from international oil and gas majors.

The pipe coating unit has an annual external coating capacity of 2.3 million square meters and an annual internal coating capacity of 1.2 million square meters. It deploys external coatings such as fusion bonded epoxy (FBE), dual layer FBE, 3 LPE, 3 LPP, tape coating and polyurethane to prevent corrosion, as well as liquid epoxy solvent base and solvent-free internal coating to improve product flow.



### BENEFITS

- Tightest tolerance even without cold expansion with respect to straightness, roundness, and accuracy of diameter
- Fastest delivery Promise on account of JIT and integrated steel-pipe model; Proximity to two world class ports (within 5 Km radius) enables strong positioning with regards to export.



### APPLICATIONS

- Offshore and onshore oil and gas pipelines
- Power plants
- Water supply
- Refineries
- Irrigation systems



### FEATURES

- Pipes are manufactured through both H-SAW and L-SAW routes
- The mill has the capability to produce high strength line pipe grades up to X-80
- A well-equipped testing laboratory helping ensure compliance with international standards: ultrasonic testing, real-time radiography (fluoroscopy), hydro-tester and final ultrasonic testing (automatic weld cut)
- External and internal coating facilities with a capacity of up to 2 million square meters annually
- Easy access to port and road ensures timely delivery of orders across the world
- Value-added products through TMCP + ADCO
- A fully automatic expander with a CNC machine that minimizes residual stresses and improves mechanical properties, ensuring tight and uniform control on dimensions
- Operates on Just-in-Time (JIT) module enabling fastest raw material-finished goods delivery time.



### PRODUCTS

- HSAW pipes
- LSAW pipes



## DIMENSIONS

|           | THICKNESS                                    | LSAW  |
|-----------|--|---|
| Diameter  | 406-3035 mm                                  | 180-2,000 mm                                |
| Grade     | Up to API 5L X-80,<br>IS 10748 grade I & III | Up to API 5L X-80<br>IS 10748 grade I & III |
| Thickness | 6-25.4mm                                     | 6-65mm                                      |
| Capacity  | 275,000 TPA                                  | 325,000 TPA                                 |